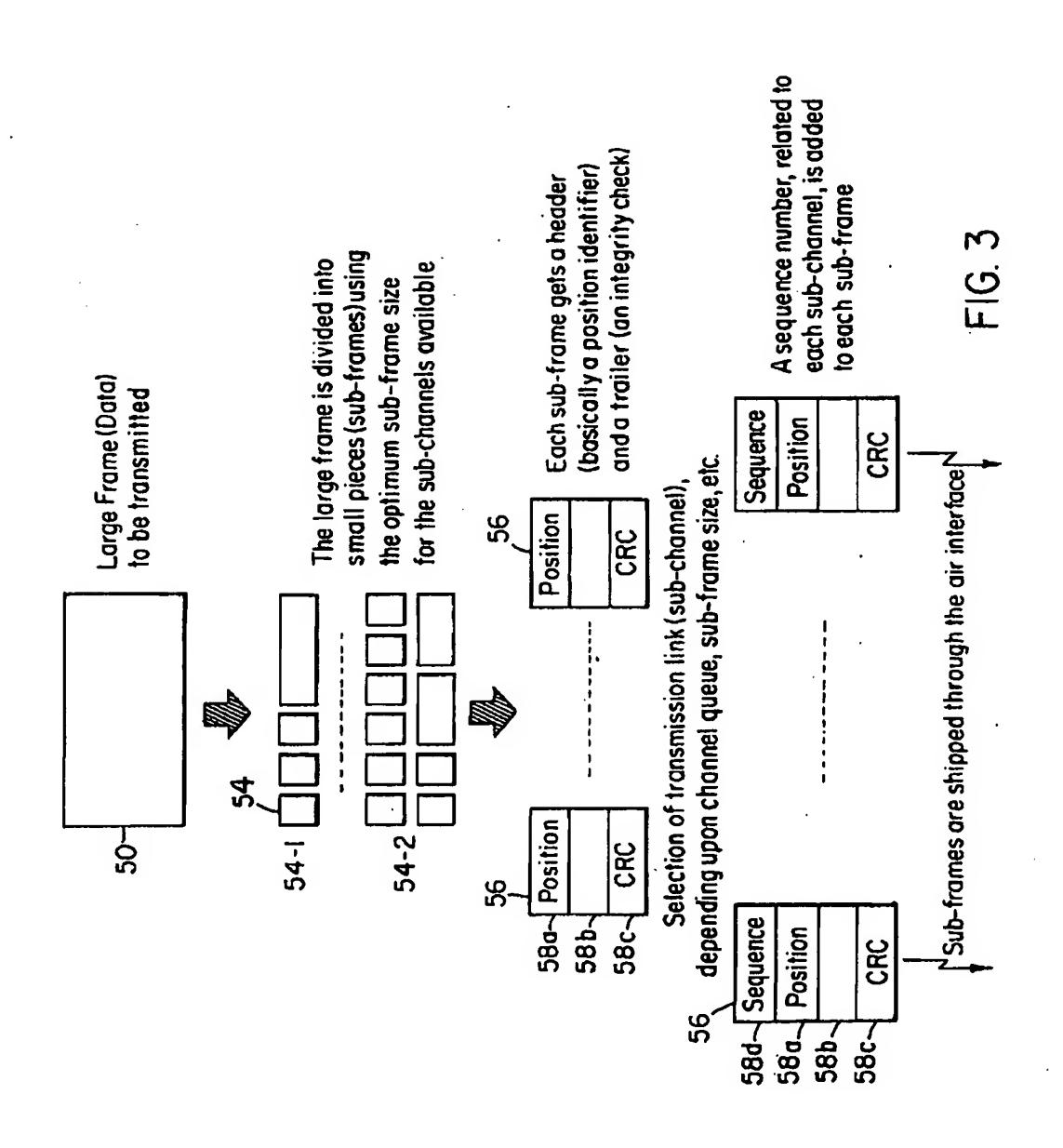
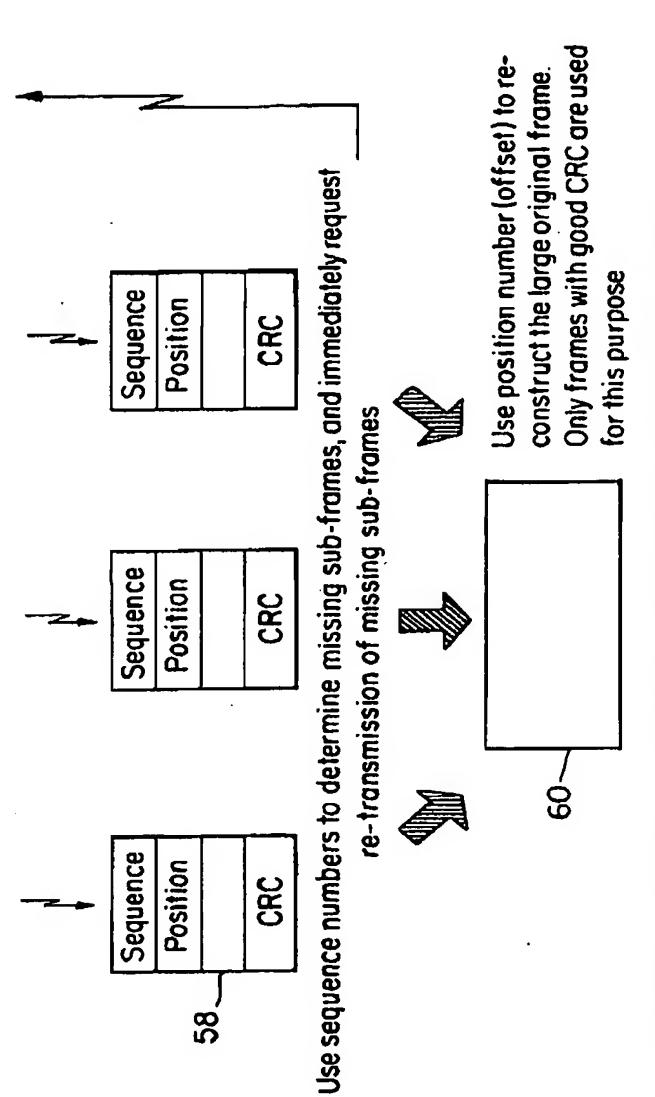


\*\*



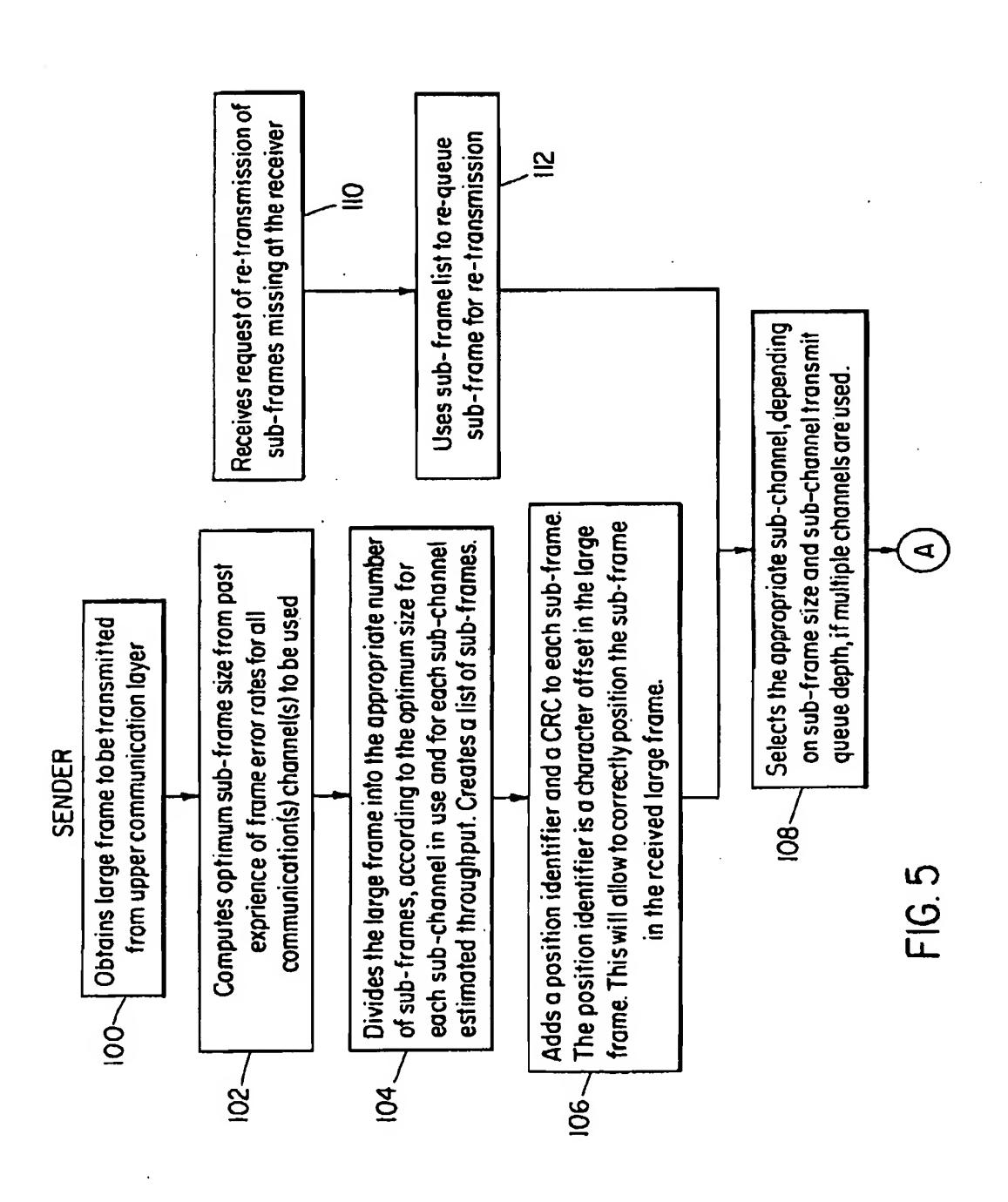


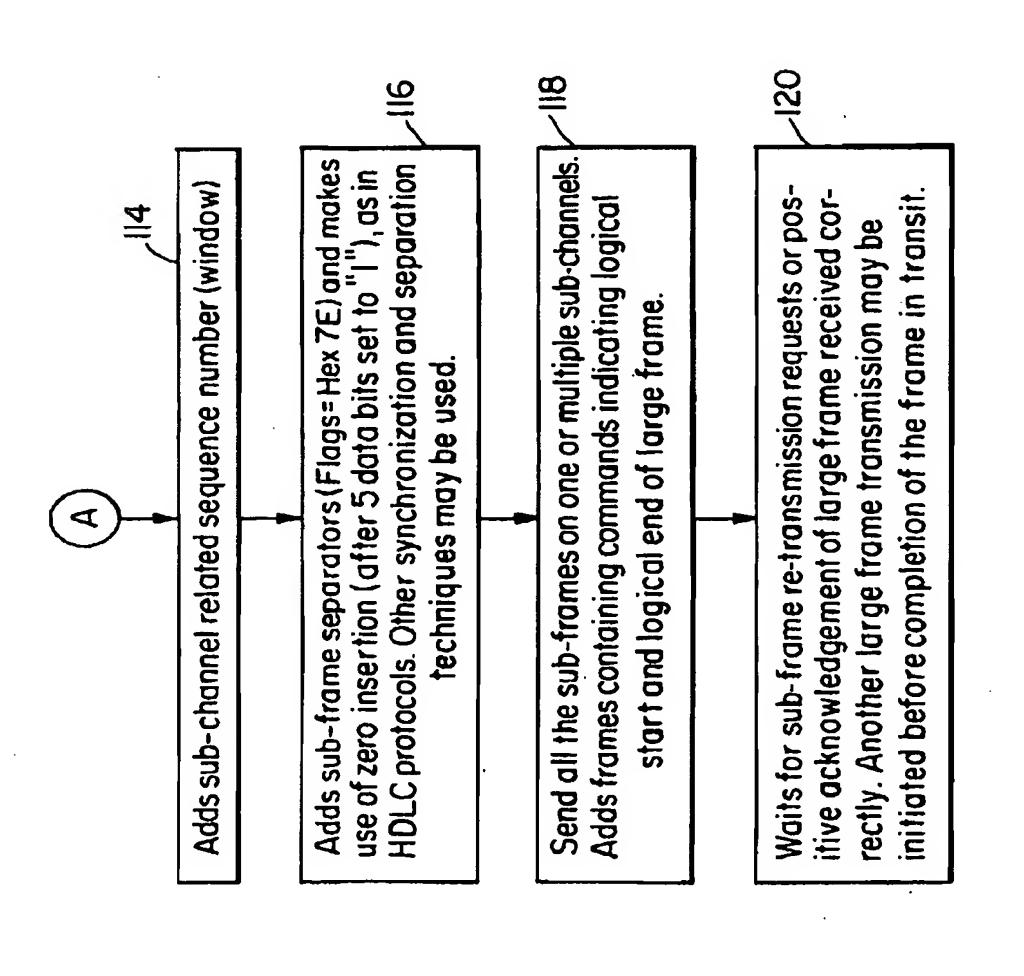
Check if any piece of the large frame is still missing when the end-of-frame command is received. If any is still missing, request retransmission of the subframe at position, specifying length.

Both Sender and Receiver know the ratio of sub-frames received with errors and received without errors. They also know the average sub-frame length for each sub-channel. Then they can update the optimum sub-frame size

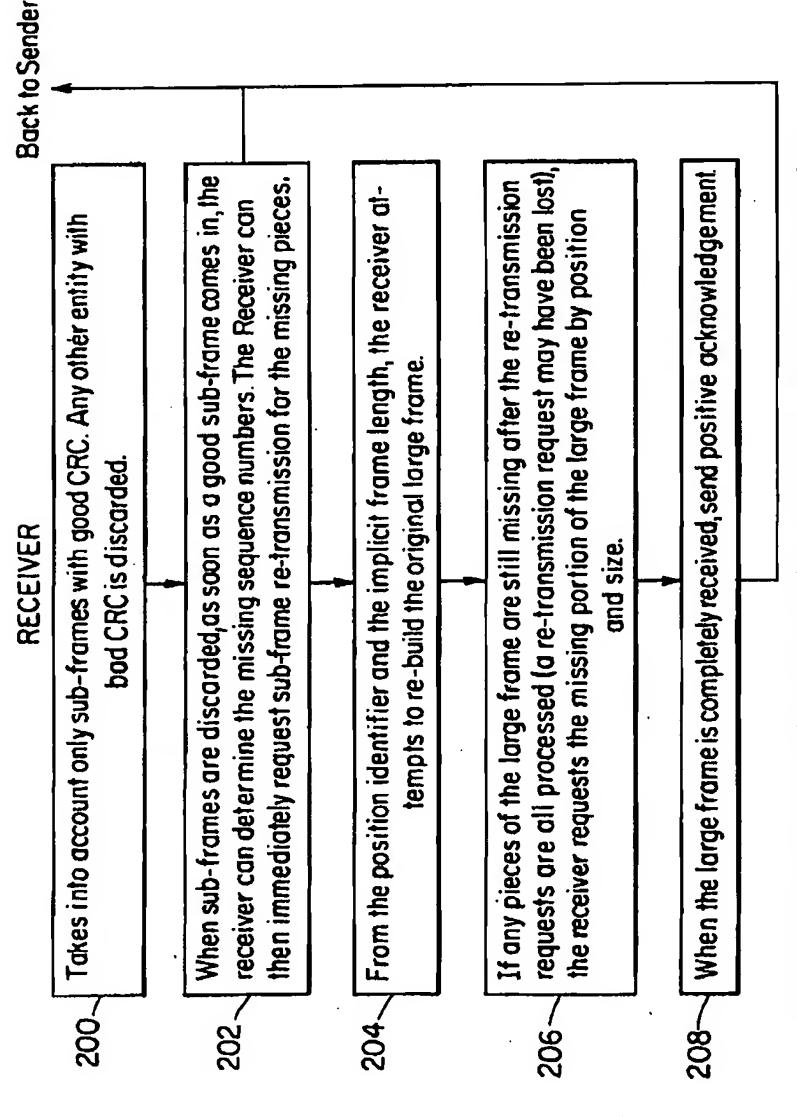
-1G. 4

11





F16. 6



Note that the transission sub-layer described here does not have to ensure perfect integrity. The large frame includes it's own CRC and other higher layer protocol elements to ensure data integrity. An error in the sub-layer described here is equivalent to bit error perceived at the higher layer. The sub-layer only strives to improve BER, not generate absolute data integrity.

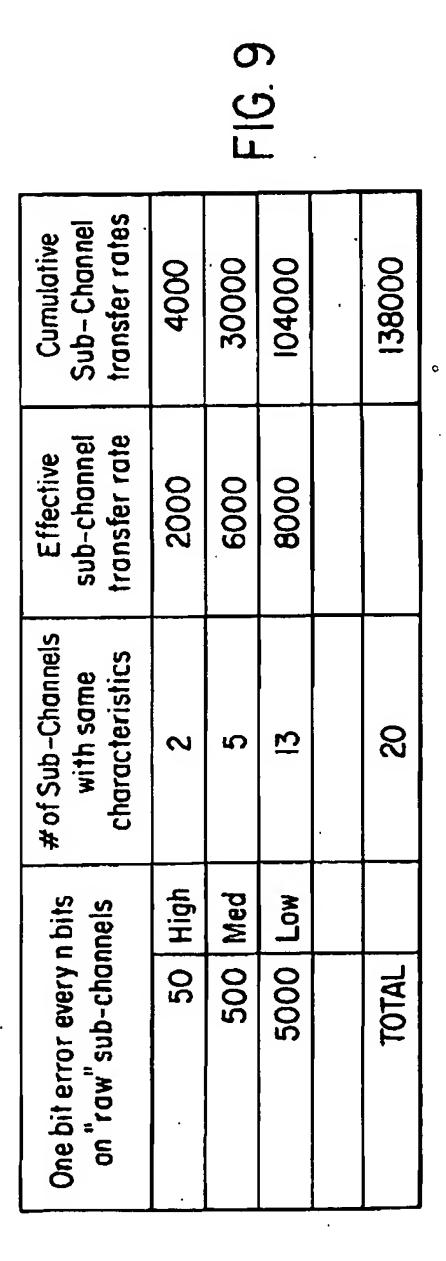
F (5)

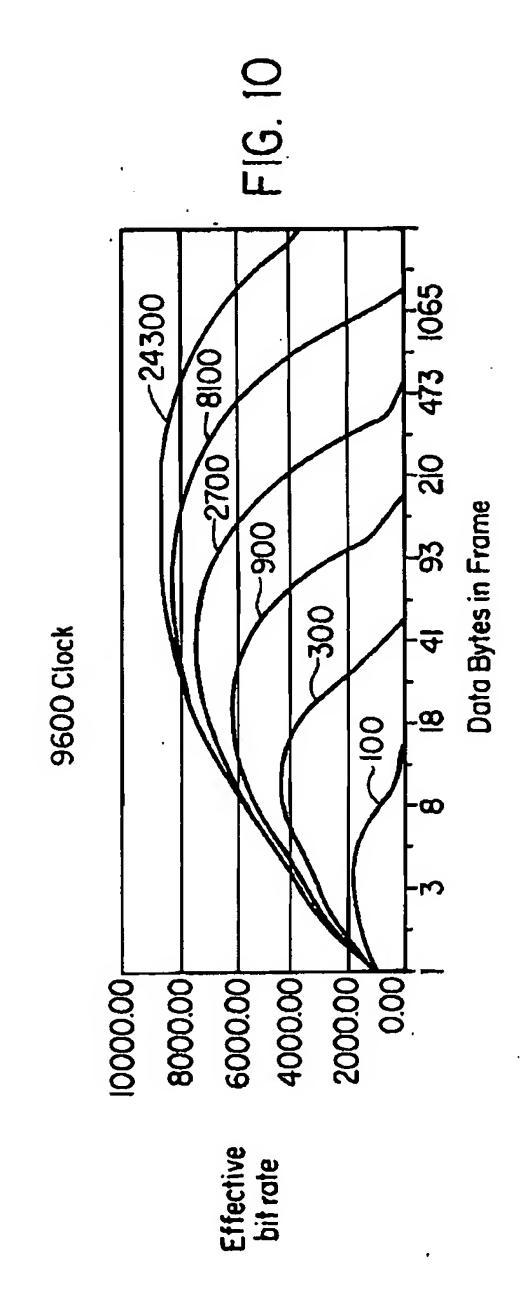
Sub-Frame Structure

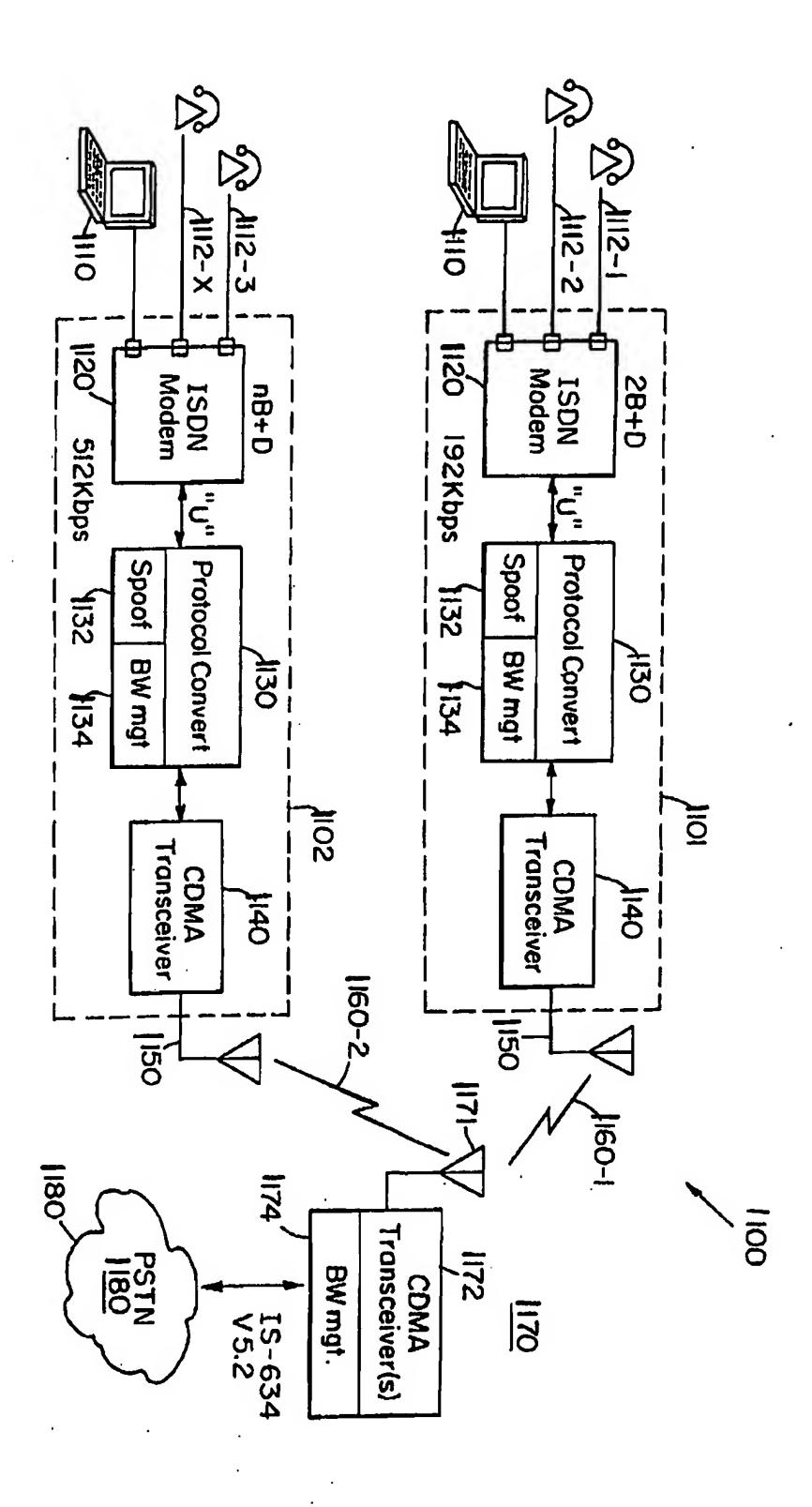
Field	Proposed Number of Bits
Data/Command Indicator	
Large Frame sequence number (Window of 2)	
Character offset of sub-frame into large frame	
Sub-Channel sequence number (Window of 7)	3
Data	0 to 2048
CRC	12
Shared Flag (Hex 7E)	8

This sub-frame structure is suitable for sub-channel utilization (Multi-tink) use on media with high Bit Error Rates (BER)

F16.8







-IG. 11

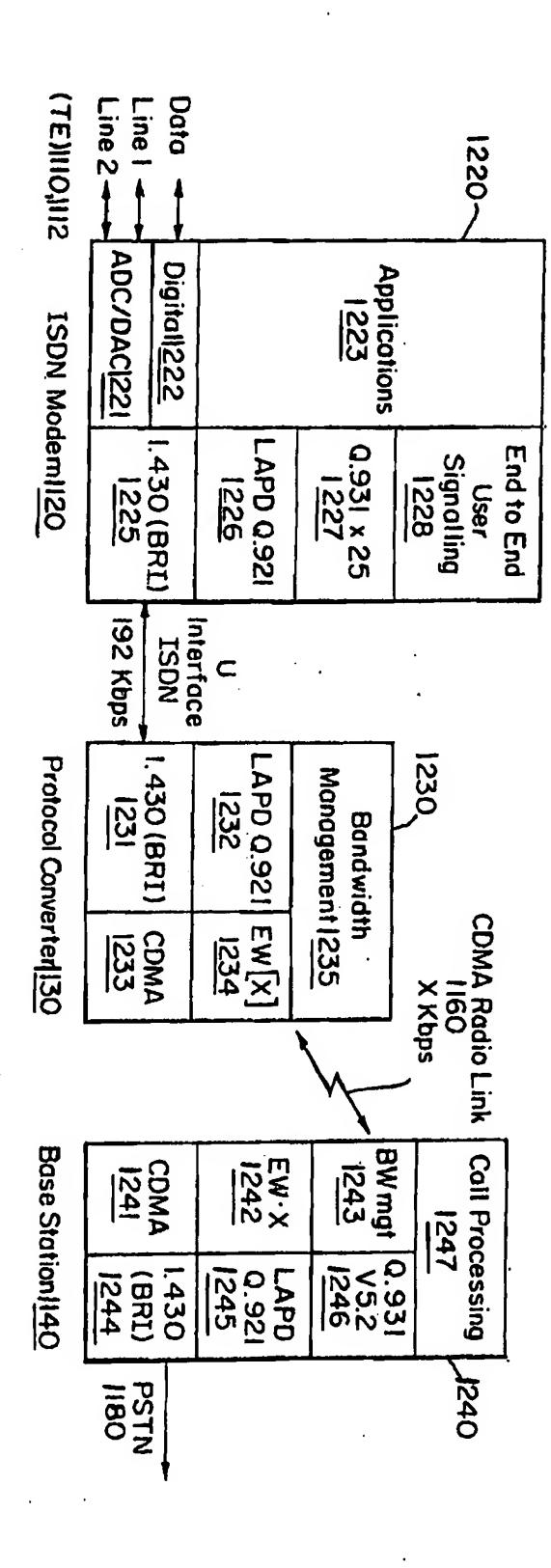
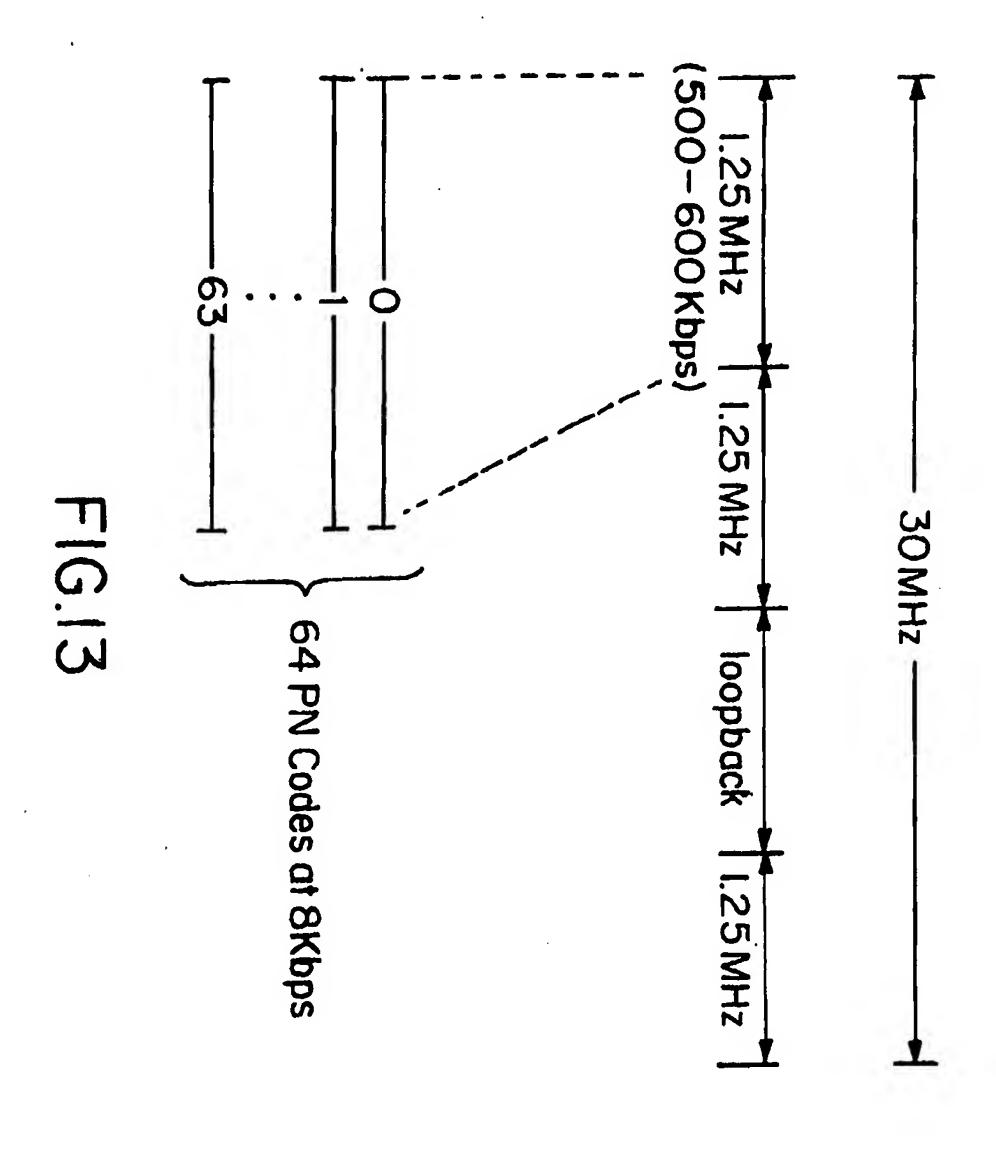
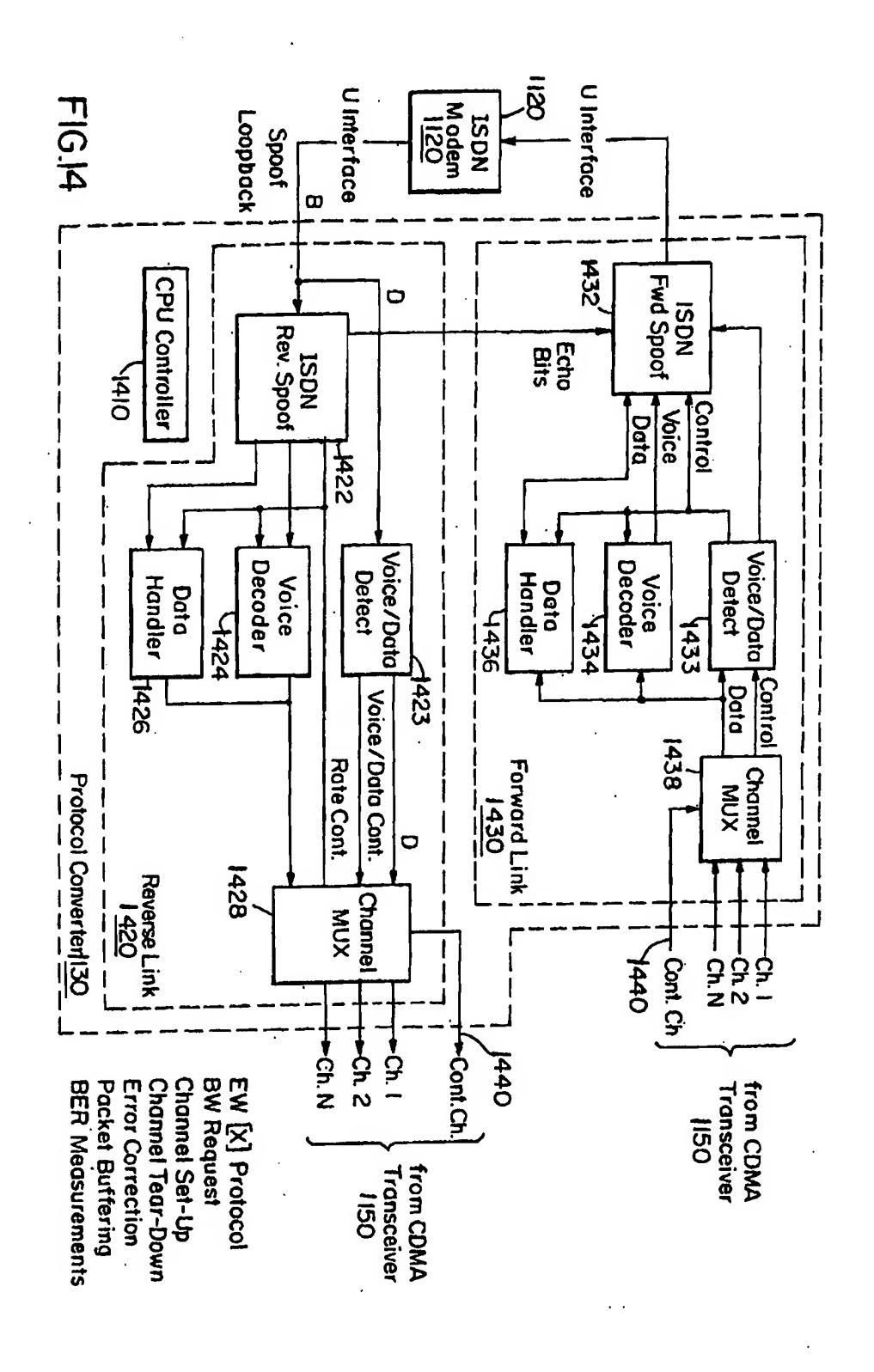
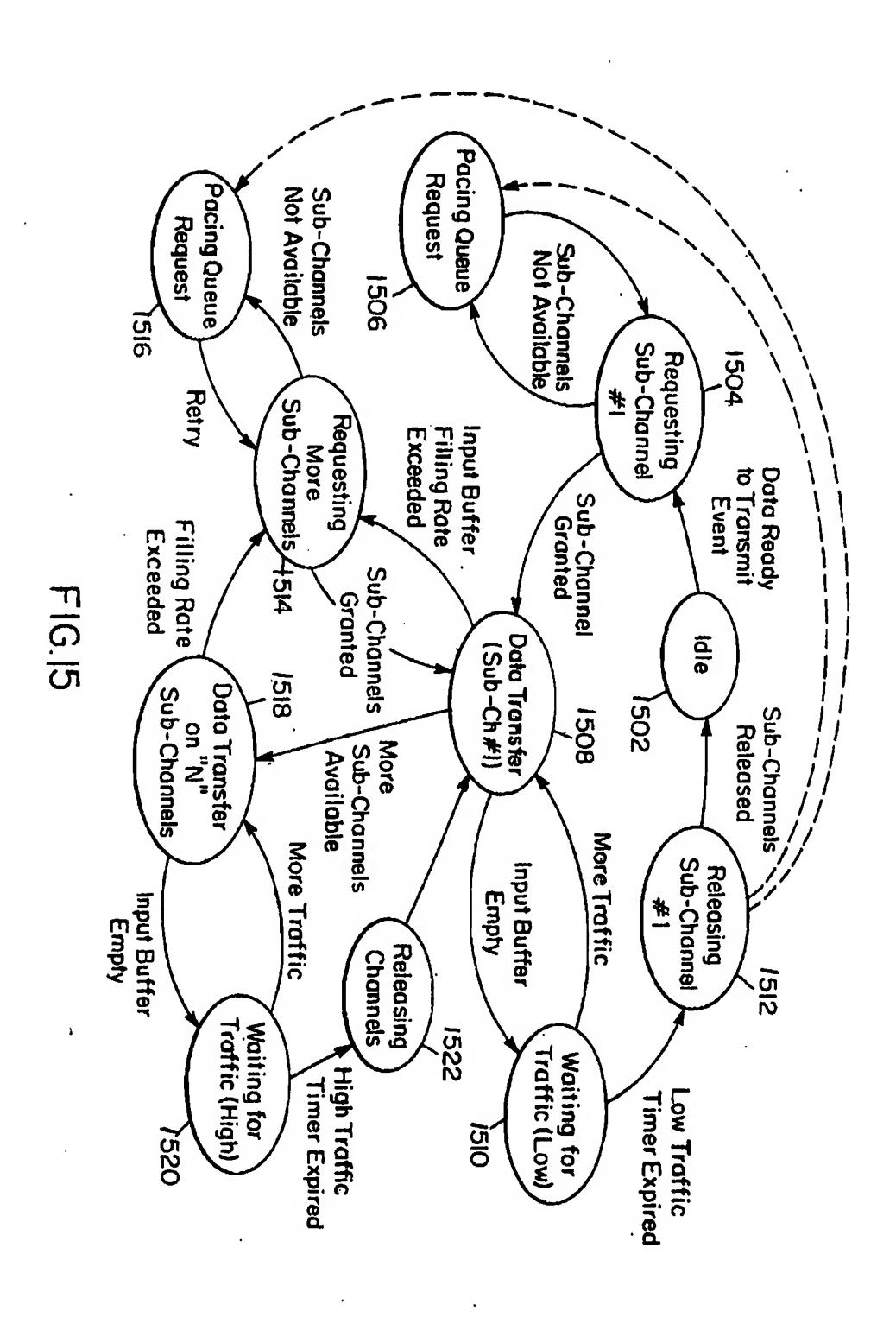
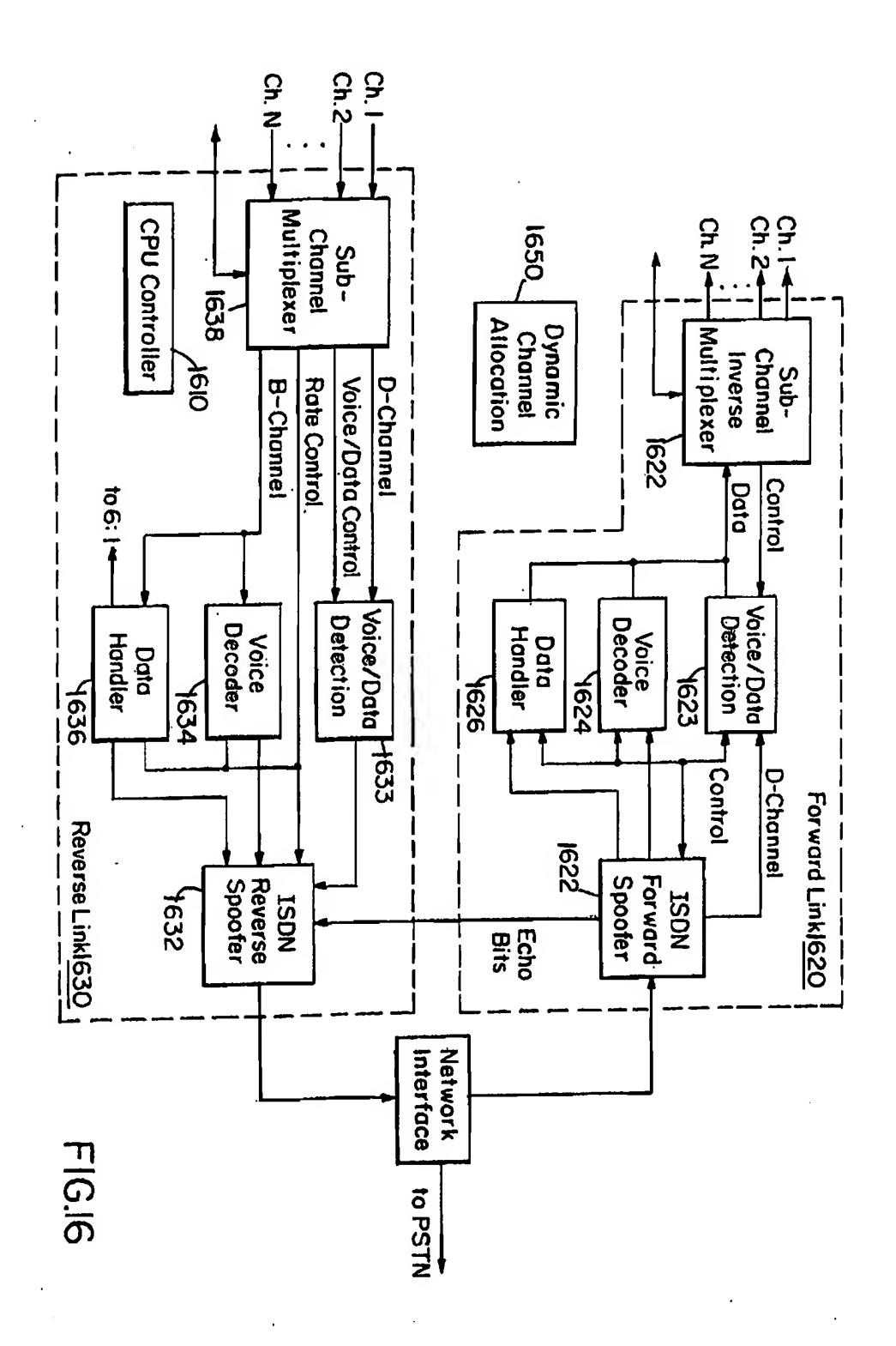


FIG.12



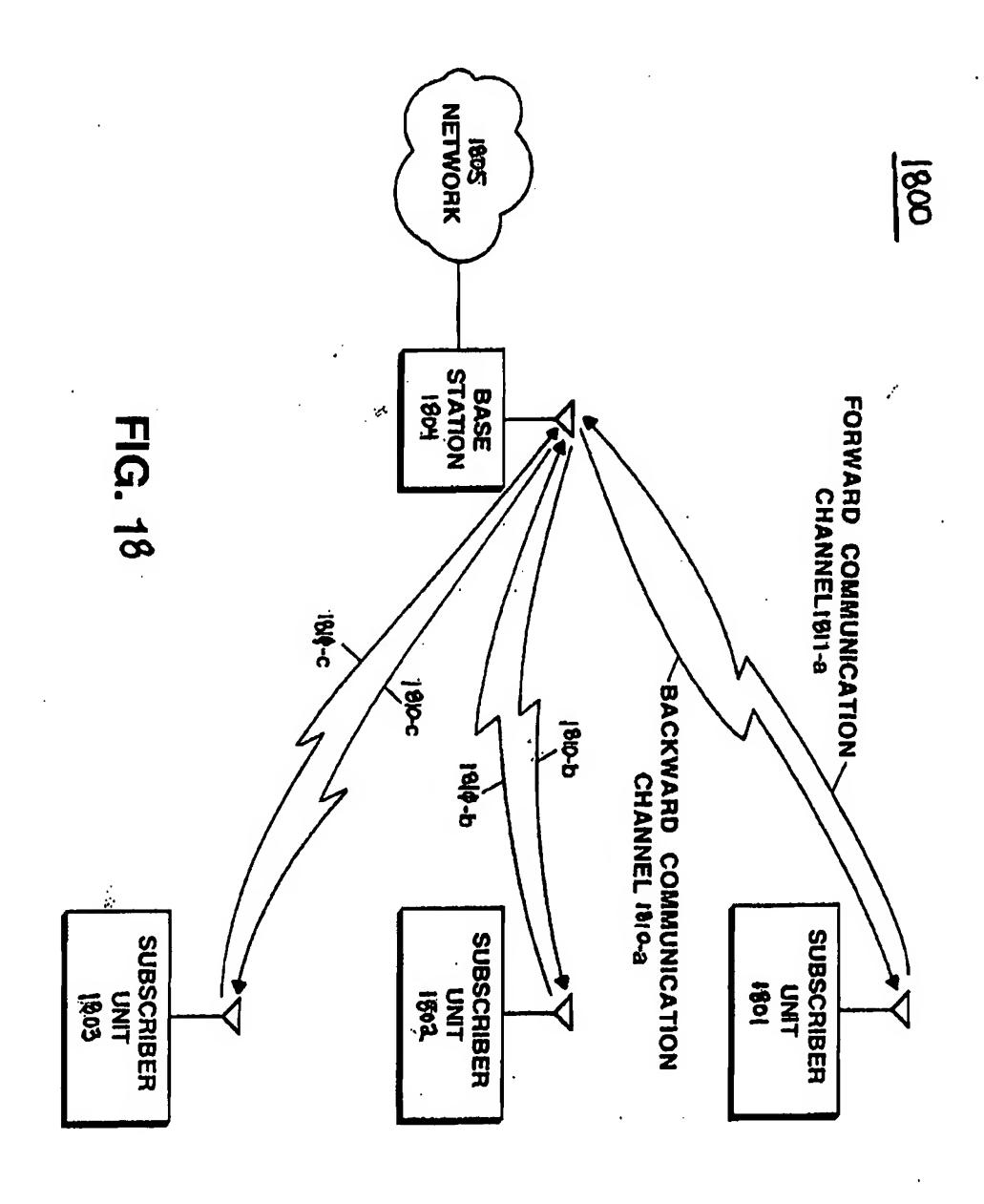


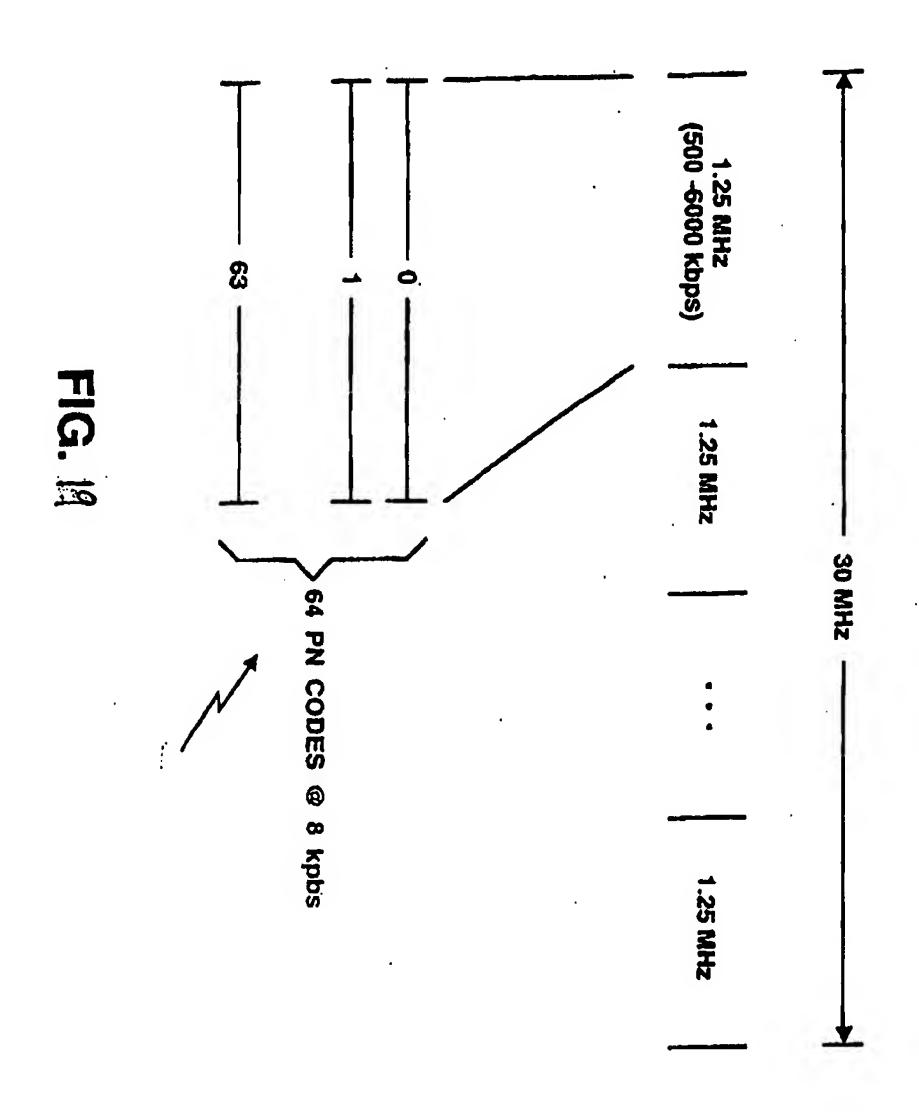


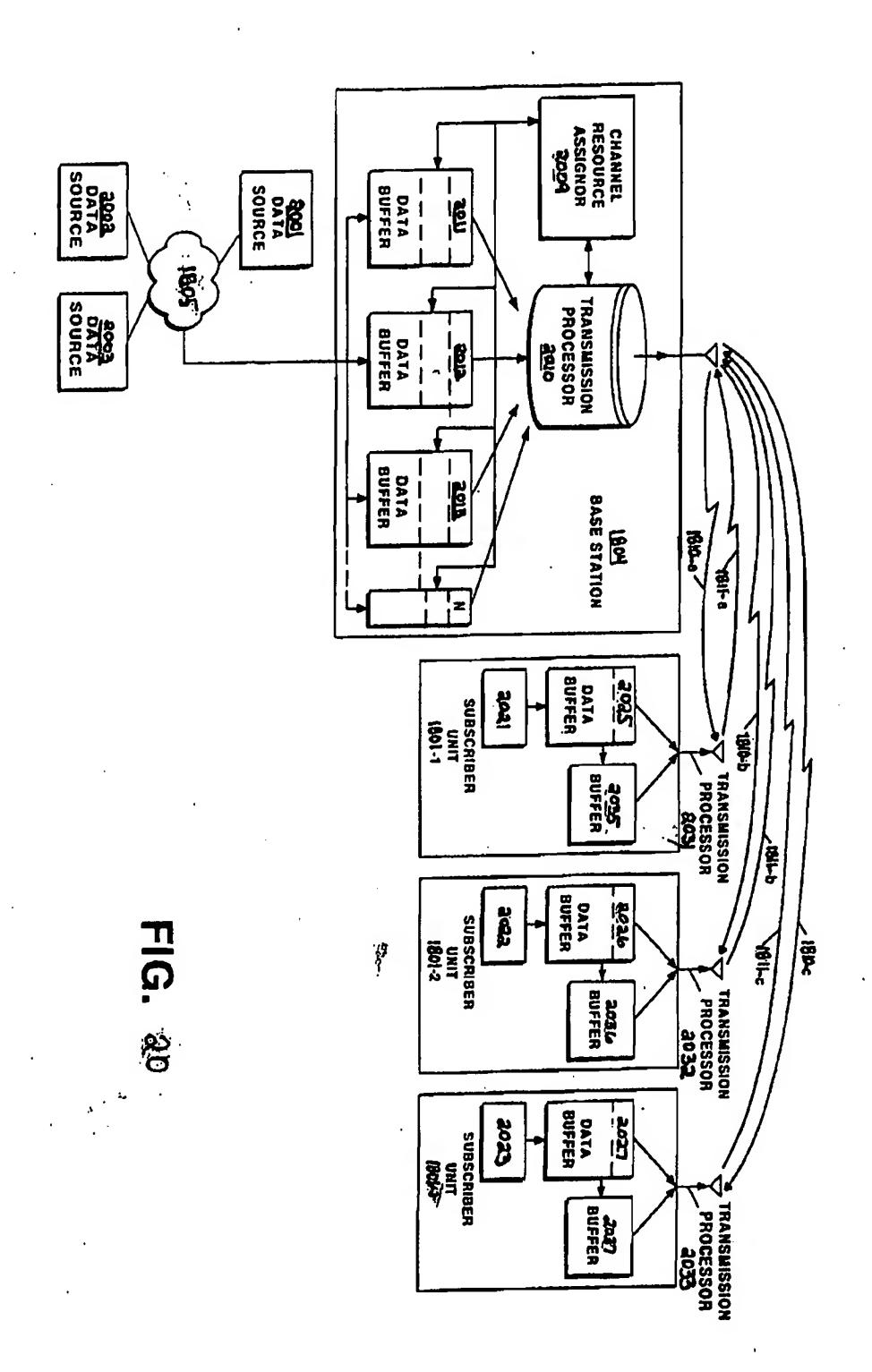


```
MAIN:
   DO Always
      Process Port Request
      Process Bandwidth Release
                                                 017K
      Process Bandwidth Requests
      Locate and tear down unused sub-channels
   ENDDO
PORT REQUEST:
   Make reservation in least utilized sub-band
      Reservation decision based on % of available Sub-Channels to
      assign (Based on parallel user BW vs. throughput efficiency)
   IF reservation was made
      Send frequency and code assignment
                                                                 1720
      Update allocations
   ELSE
      Add port request to port queue
      Calculate expected wait time
       Send wait message to user
   ENDIF
BANDWIDTH RELEASE:
   Notify channel-bonding function
   Return frequency and code to available pool
   Update radio record
BANDWIDTH REQUEST:
   Select highest priority with lowest bandwidth utilization,
      including need-allocation gap
   Check other sub-bands for greatest available sub channels
      (Switch sub-bands if difference in sub-band space
                                                            Y740
       exceeds payback threshold)
   Assign sub channels based on need, priority, availability
   Notify channel bonding function
   Update radio record
```

FIG.17







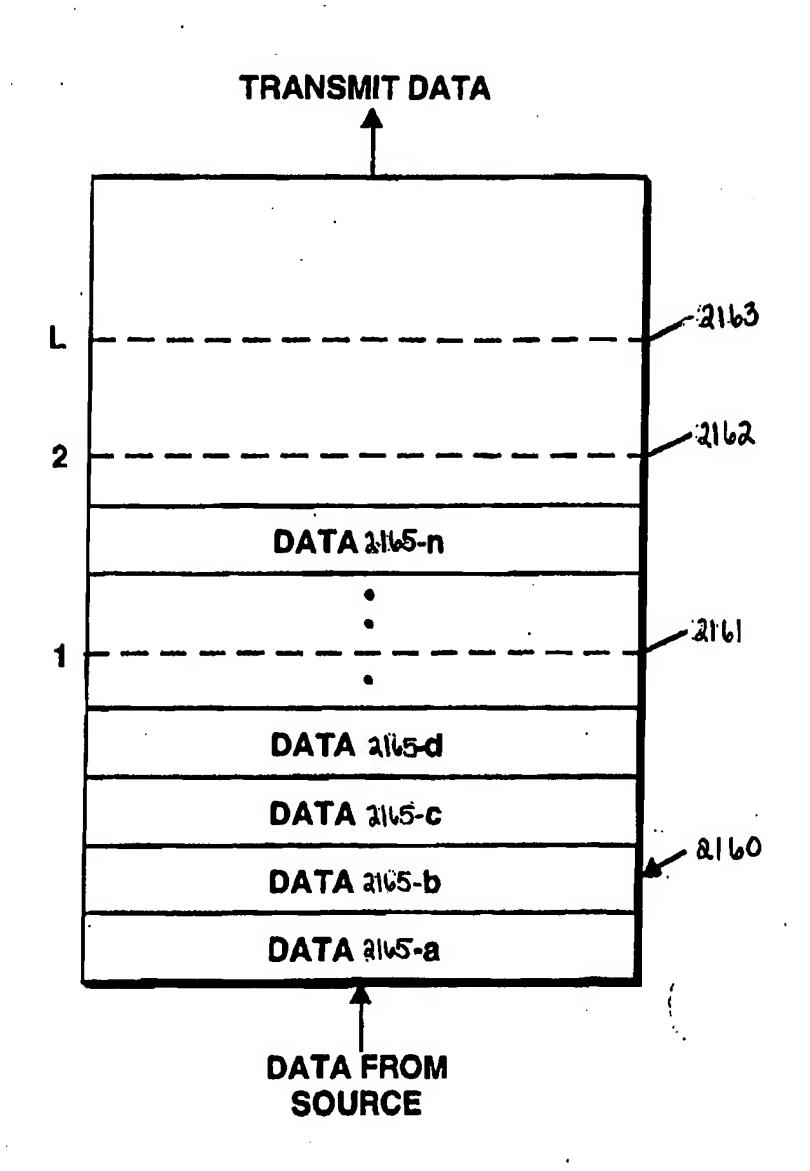


FIG. 21

